PARTIAL TRANSLATION OF JAPANESE UNEXAMINED PATENT PUBLICATION (KOKAI) No. H08(1996)-266854

Title of the Invention: Apparatus for deodorant

Application No.: H07(1995)-76991

Filing Date: March 31, 1995

Inventors: Toshiyuki YAMAUCHI, and two others

Applicant: Matsushita Electric Works Ltd.

Publication Date: October 15, 1996

[Claims]

[Claim 1]

A deodorant apparatus comprising a discharging portion having a discharge electrode and a counter electrode which are capable of discharging by applying a high voltage, and

a functional material capable of adsorbing and decomposing a gaseous component by means of at least one of ozone, heat, or ultraviolet radiation, which is generated by the discharge in said discharging portion.

***** **** **** ***** ****

[0017]

As the functional material 4, a deodorizing and decomposing catalyst, that is, an ozone deodorizing catalyst, a combustive oxidation catalyst, or a photocatalyst, or an adsorbent, such as a porous ceramic, activated carbon, zeolite, or clay. The ozone deodorizing catalyst as the deodorizing and decomposing catalyst has a structure wherein a metallic oxide such as manganese dioxide, titanium oxide, or zinc oxide is carried on a substrate. ... The combustive oxidation catalyst has a structure wherein a metallic carrier of a metallic oxide such as platinum, palladium, or manganese dioxide is carried on a substrate. ... The photocatalyst has a structure wherein a metallic oxide having a photocatalytic function, such as titanium oxide, zinc oxide, or tin oxide and optionally a photosensitizer on mainly an inorganic substrate.

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[Brief Explanation of Drawings] [Fig. 1]

A schematic sectional view of one embodiment.

[Fig. 2]

A schematic sectional view of another embodiment.

[Fig. 3]

A schematic sectional view of still another e embodiment.

[Fig. 4]

A schematic sectional view of still another e embodiment.

[Fig. 5]

A schematic sectional view of still another e embodiment.

[Fig. 6]

A schematic sectional view of still another e embodiment.

[Explanation of Reference Numbers]

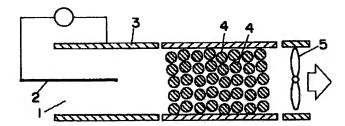
1 ··· discharging portion;

2 ··· discharge electrode;

3 ··· counter electrode;

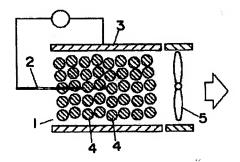
4 · · · functional material.

[Drawings]
[Fig. 1]

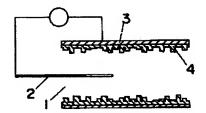


- 1 分替制
- 2 放電機
- 3 対極
- 4 機能材料

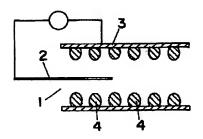
[Fig. 2]



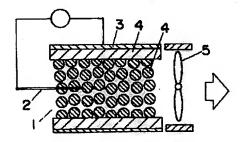
[Fig. 4]



[Fig. 5]



[Fig. 6]



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PARTIAL TRANSLATION OF JAPANESE UNEXAMINED PATENT PUBLICATION (KOKAI) No. 2001-159309

Title of the Invention: Apparatus of cleaning exhaust gas

Application No.: 11(1999)-343654

Filing Date: December 2, 1999

Inventors: Matsue UEDA, and two others

Applicant: Toyota Central Res. & Dev. Lab. Inc.

Publication Date: June 12, 2001

[Brief Explanation of Drawings]

[Fig. 1]

A schematic view of one embodiment of the present apparatus of cleaning exhaust gas from an internal-combustion engine.

[Fig. 2]

A view showing one embodiment of concrete structures of the discharging apparatus 7.

[Fig. 3]

A sectional view of line X, X in Fig. 2

[Explanation of Reference Numbers]

1 · · · internal-combustion engine;

3 ··· catalyst;

5 · · · apparatus for generating pulse high voltage

7 · · · discharging apparatus;

81, 82 · · · thermometer;

101 · · · exhaust duct case;

102 · · · insulating material;

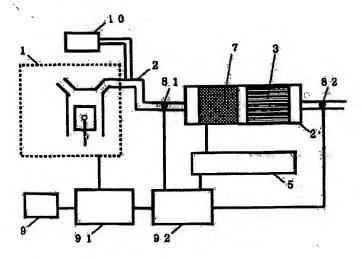
103 ··· electrode;

104 · · · spacer;

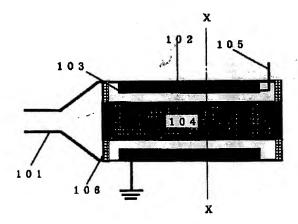
105 · · · plug;

106 · · · glass.

[Drawings] [Fig. 1]



[Fig. 2]



[Fig. 3]

